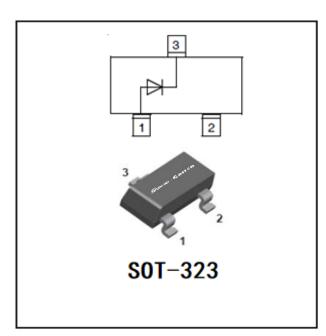


# **Switching Diode**



#### **Features**

- •Epoxy meets UL-94 V-0 flammability rating
- •Moisture Sensitivity Level 1
- •Fast switching speed
- High Conductance
- •Surface mount package ideally Suited for Automatic Insertion

### **Mechanical Data**

• Package: SOT-323

• Terminals: Tin plated leads, solderable per

J-STD-002 and JESD22-B102

• Marking: A2

■Maximum Ratings (Ta=25°C Unless otherwise specified)

Item	Symbol	Unit	Value
Non-Repetitive Peak Reverse Voltage	V <sub>RM</sub>	V	100
Reverse Voltage	V <sub>R</sub>	V	100
Peak Forward Current	I <sub>FAV</sub>	mA	150
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	°C/W	625
Operation Junction Temperature	TJ	$^{\circ}$	-55 to +150
Storage Temperature	T <sub>STG</sub>	$^{\circ}$	-55 to +150

**■**Electrical Characteristics (Ta=25°C unless otherwise specified)

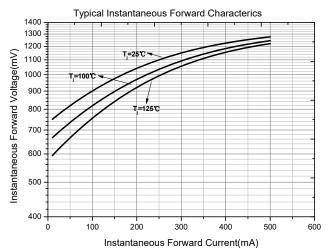
ltem	Symbol	Unit	Conditions	Value
Reverse Voltage	$V_R$	V	I <sub>R</sub> =100uA	100
	$V_{F}$	V	I <sub>F</sub> =1mA	0.715
Maximum Instantaneous Forward Voltage			I <sub>F</sub> =10mA	0.855
			I <sub>F</sub> =50mA	1.0
			I <sub>F</sub> =150mA	1.25
Maximum DC Reverse Current	I <sub>R</sub>	uA	V <sub>R</sub> =75V	2.5
Maximum Junction Capacitance	C <sub>J</sub>	pF	f=1.0MHz, V <sub>R</sub> =0V	4
Maximum Reverse Recovery Time	Trr	ns	$I_F = I_R = 10 \text{mA}$ , $I_{rr} = 0.1 \cdot I_R$ , $R_L = 100 \Omega$	4

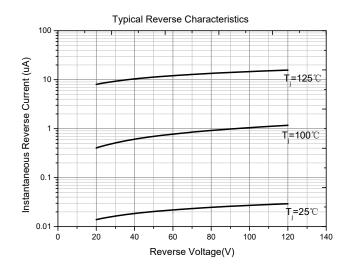


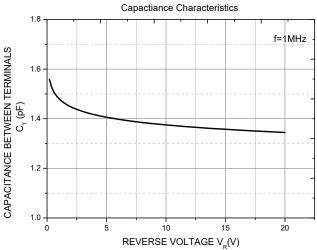
■ Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAS16WT	F2	Approximate 0.005	3000	30000	120000	7" reel

## **■** Characteristics (Typical)

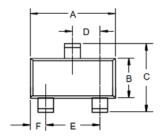


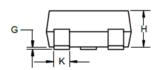


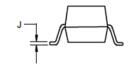




## ■ SOT-323 Package Outline Dimensions

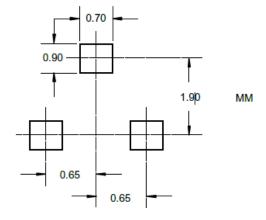






DIMENSIONS						
	INC	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.071	.087	1.80	2.20		
В	.045	.053	1.15	1.35		
С	.083	.096	2.10	2.45		
D	.026 N	.026 Nominal		0.65Nominal		
Е	.047	.055	1.20 1.40			
F	.012	.016	.30	.40		
G	.000	.004	.000	.100		
Н	.035	.039	.90	1.00		
J	.004	.010	.100	.250		
K	.006	.016	.15	.40		

## ■ SOT-323 Suggested Pad Layout





#### Disclaimer

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